

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT: KIM, Min-won

SERIAL NO.: (International Serial No.PCT/KR2005/004344)

FILED: Herewith (International Filing Date: 16 December 2005)

TITLE: FLUID FLOW INTERRUPTION MEANS FOR FILTER OF WATER PURIFIER

REMARKS ON PRELIMINARY AMENDMENT

Commissioner for Patents  
P. O. Box 1450  
Alexandria, VA 22313-1450

Sir:

In conjunction with the filing of the present application, and prior to an initial Official Action on this matter, please amend the above-identified application as provided in the attached Marked Up Copy and Substitute Specification.

Please note that the following amendments in the Substitute Specification apply to the attached specification and claims labeled for "U.S. filing". This combined application incorporates the original application and any amendments or annex to the International Application in the proper order, including the correct original and substitute pages, claims and drawing sheets.

In this preliminary amendment, please consider the following remarks in conjunction with the amendments to the above-identified application as follows:

REMARKS

The present Preliminary Amendment has been entered for the purpose of placing the application into a more proper U.S. format. In particular, certain grammatical and idiomatic inconsistencies have been corrected by amendment to the specification, and the application is

corrected for certain typographical errors found in the originally submitted application. No new matter has been added by these amendments. The present application incorporates the original filing including any amendments made in the international filing. There was no amendment in the International Application, and there is no annex to the International Preliminary Examination Report. There was no demand filed and no IPER. The specification is an English translation of an originally Korean language document.

The Claims have been amended so as to conform with U.S. requirements and so as to remove multiple dependent claims. The Abstract has been amended so as to conform to U.S. filing requirements.

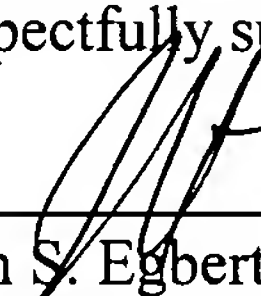
Applicant respectfully requests that the present Amendment be entered prior to an initial Official Action on the present application.

Date

5-11-06

Customer No. 24106

Respectfully submitted,

  
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## CLAIMS

I claim:

1. (Currently amended) A filter (~~A~~) for a water purifier, ~~including~~ said water purifier being comprised of a head (100) ~~which is defined with~~ by a guide passage (120) for guiding fluid introduced into ~~the~~ said head (100) through an inlet port (110) ~~and has~~, an outlet port (130) for discharging purified fluid to ~~the~~ an outside thereof, and a filter body (200) ~~which is~~ threadedly locked to ~~the~~ said head (100) and said guide passage into which the fluid flows through ~~the~~ said guide passage (120) ~~communicated~~ being in communication with ~~the~~ said inlet port (110) of ~~the~~ said head (100), ~~and which purifies the fluid flowing therein and transfers~~, purified fluid being transferred to ~~the~~ said outlet port (130) of ~~the~~ said head (100), ~~the~~ said filter comprising:

fluid flow interruption means comprising an elastic spring (~~400~~);

a fluid flow interrupter (~~300~~) disposed in ~~the~~ said guide passage (120) ~~communicated~~ in communication with ~~the~~ said inlet port (110), ~~and having~~ a fluid guide rod (310) ~~which is~~ formed at one end of ~~the~~ said fluid flow interrupter (~~300~~) and an opening and closing body (~~320~~) ~~which is~~ connected at one end thereof to ~~the~~ a fluid guide rod (310) ~~and has~~, said opening and closing body having a diameter gradually decreasing in a downward direction around which an O-ring (~~321~~) is fitted and forming an opening and closing projection from ~~the other~~ another end of ~~which~~, an ~~opening and closing projection~~ (~~322~~) is formed, ~~the~~ thereof, said fluid flow interrupter functioning to controllably engaging opening and ~~close~~ the closing said guide passage (120) by force of ~~the~~ said elastic spring (~~400~~) ~~when the~~, said head (100) and ~~the~~ filter body (200) ~~are~~ being coupled to and uncoupled from each other; and

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at least one through-hole ~~(210)~~ defined on an upper end of the said filter body (200) ~~so that,~~ fluid having passed through the said guide passage (120) ~~communicated with the in~~ communication with said inlet port ~~(110)~~ ~~can flow~~ flowing through the said through-hole into the said filter body ~~(200)~~,

wherein said guide passage has a hollow cylindrical protuberance ~~(121)~~ ~~which has~~ formed at another end thereof, said hollow cylindrical protuberance having an inner diameter greater than an outer diameter of the said fluid guide rod ~~(310)~~ of the said fluid flow interrupter ~~(300)~~ ~~is formed~~ ~~at one end of the guide passage (120), the other~~ said other end of the said guide passage (120) ~~has~~ having an inner diameter gradually decreasing in ~~the~~ a downward direction, ~~and the~~ said elastic spring ~~(400)~~ ~~has~~ having one end through which the said fluid guide rod (310) of the said fluid flow interrupter (300) is inserted and ~~the other~~ another end ~~which is~~ being fitted around the said hollow cylindrical protuberance ~~(121)~~.

2. (Currently amended) The filter ~~(A)~~ is set forth in claim 1, further comprising:

a bracket ~~(500)~~ having one end ~~which is~~ coupled to an outer surface of the said head ~~(100)~~ ~~and the other~~ and another end ~~which is~~ fastened to a wall.

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### ABSTRACT OF THE DISCLOSURE

A filter (A) for a water purifier includes a head (100) which is defined with a guide passage (120) ~~communicated in communication~~ with an inlet port (110) ~~and has~~ an outlet port (130), and a filter body (200) which purifies the fluid flowing therein through the guide passage (120) of the head (100) and transfers purified fluid to the outlet port (130) of the head (100). The filter (A) ~~comprises of the present invention includes~~ a fluid flow interrupter (300) which is disposed in the guide passage (120) to controllably open and close the guide passage (120) by spring force when the head (100) and the filter body (200) are coupled to and de-coupled from each other, ~~and~~ There is at least one through-hole (210) which is defined on an upper end of ~~the~~ the filter body (200) so that fluid having passed through the guide passage (120) can flow through the through-hole (210) into the filter body (200).